



EXPRESS MAIL NO: EV336656145US

1

SEQUENCE LISTING

<110> Gaiger, Alexander  
Cheever, Martin A.

<120> COMPOSITIONS AND METHODS FOR WT1  
SPECIFIC IMMUNOTHERAPY

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<141> 2000-10-09

<150> US 09/684,361  
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<150> US 09/276,484  
<151> 1999-03-25

<150> US 09/164,223  
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Leu Gln Met His Ser Arg Lys His Thr  
1 5

<210> 281  
<211> 9  
<212> PRT  
<213> Mus musculus

<400> 281  
Met His Gln Arg Asn Met Thr Lys Leu  
1 5

<210> 282  
<211> 9  
<212> PRT  
<213> Mus musculus

<400> 282  
Asn Ala Pro Tyr Leu Pro Ser Cys Leu  
1 5

<210> 283  
<211> 9  
<212> PRT  
<213> Mus musculus

<400> 283  
Asn Leu Gly Ala Thr Leu Lys Gly Met  
1 5

<210> 284  
<211> 9  
<212> PRT  
<213> Mus musculus

<400> 284  
Asn Leu Tyr Gln Met Thr Ser Gln Leu  
1 5

<210> 285  
<211> 9  
<212> PRT  
<213> Mus musculus

<400> 285  
Asn Met Thr Lys Leu His Val Ala Leu  
1 5

<210> 286  
<211> 9  
<212> PRT  
<213> Mus musculus

<400> 286  
Asn Gln Met Asn Leu Gly Ala Thr Leu  
1 5

<210> 287  
<211> 9  
<212> PRT  
<213> Mus musculus

<400> 287  
Pro Gly Ala Ser Ala Tyr Gly Ser Leu  
1 5

<210> 288  
<211> 9  
<212> PRT  
<213> Mus musculus

<400> 288  
Gln Ala Ser Ser Gly Gln Ala Arg Met  
1 5

<210> 289  
<211> 9  
<212> PRT  
<213> Mus musculus

<400> 289  
Gln Met Thr Ser Gln Leu Glu Cys Met  
1 5

<210> 290  
<211> 9  
<212> PRT  
<213> Mus musculus

<400> 290  
Gln Gln Tyr Ser Val Pro Pro Pro Val  
1 5

<210> 291  
<211> 9  
<212> PRT  
<213> Mus musculus

<400> 291  
Gln Tyr Arg Ile His Thr His Gly Val  
1 5

<210> 292  
<211> 9  
<212> PRT  
<213> Mus musculus

<400> 292  
Gln Tyr Ser Val Pro Pro Pro Val Tyr  
1 5

<210> 293  
<211> 9  
<212> PRT  
<213> Mus musculus

<400> 293  
Arg Met Phe Pro Asn Ala Pro Tyr Leu  
1 5

<210> 294  
<211> 9  
<212> PRT  
<213> Mus musculus

<400> 294  
Arg Thr Pro Tyr Ser Ser Asp Asn Leu  
1 5

<210> 295  
<211> 9  
<212> PRT  
<213> Mus musculus

<400> 295  
Arg Val Ser Gly Val Ala Pro Thr Leu  
1 5

<210> 296  
<211> 9  
<212> PRT  
<213> Mus musculus

<400> 296  
Ser Cys Leu Glu Ser Gln Pro Thr Ile  
1 5

<210> 297  
<211> 9  
<212> PRT  
<213> Mus musculus

<400> 297  
Ser Cys Gln Lys Lys Phe Ala Arg Ser  
1 5

<210> 298  
<211> 9  
<212> PRT  
<213> Mus musculus

<400> 298  
Ser Asp Val Arg Asp Leu Asn Ala Leu  
1 5

<210> 299  
<211> 9  
<212> PRT  
<213> Mus musculus

<400> 299  
Ser Leu Gly Glu Gln Gln Tyr Ser Val  
1 5

<210> 300  
<211> 9  
<212> PRT  
<213> Mus musculus

<400> 300  
Thr Cys Gln Arg Lys Phe Ser Arg Ser  
1 5

<210> 301  
<211> 9  
<212> PRT  
<213> Mus musculus

<400> 301  
Thr Glu Gly Gln Ser Asn His Gly Ile  
1 5

<210> 302  
<211> 9  
<212> PRT  
<213> Mus musculus

<400> 302  
Thr Leu His Phe Ser Gly Gln Phe Thr  
1 5

<210> 303  
<211> 9  
<212> PRT  
<213> Mus musculus

<400> 303  
Thr Leu Val Arg Ser Ala Ser Glu Thr  
1 5

<210> 304  
<211> 9  
<212> PRT  
<213> Mus musculus

<400> 304  
Val Leu Asp Phe Ala Pro Pro Gly Ala  
1 5

<210> 305  
<211> 9  
<212> PRT  
<213> Mus musculus

<400> 305  
Trp Asn Gln Met Asn Leu Gly Ala Thr  
1 5

<210> 306  
<211> 9  
<212> PRT  
<213> Mus musculus

<400> 306  
Tyr Phe Lys Leu Ser His Leu Gln Met  
1 5

<210> 307  
<211> 9  
<212> PRT  
<213> Mus musculus

<400> 307  
Tyr Gln Met Thr Ser Gln Leu Glu Cys  
1 5

<210> 308  
<211> 9  
<212> PRT  
<213> Mus musculus

<400> 308  
Tyr Ser Ser Asp Asn Leu Tyr Gln Met  
1 5

<210> 309  
<211> 6  
<212> PRT  
<213> Homo sapien

<400> 309  
Gly Ala Ala Gln Trp Ala  
1 5

<210> 310  
<211> 12  
<212> PRT  
<213> Homo sapien

<400> 310  
Ala Ser Ala Tyr Gly Ser Leu Gly Gly Pro Ala Pro  
1 5 10

<210> 311  
 <211> 15  
 <212> PRT  
 <213> Homo sapien

<400> 311

Ala	Phe	Thr	Val	His	Phe	Ser	Gly	Gln	Phe	Thr	Gly	Thr	Ala	Gly
1					5				10				15	

<210> 312  
 <211> 5  
 <212> PRT  
 <213> Homo sapien

<400> 312

His	Ala	Ala	Gln	Phe
1			5	

<210> 313  
 <211> 32  
 <212> PRT  
 <213> Homo sapien

<400> 313

Cys	His	Thr	Pro	Thr	Asp	Ser	Cys	Thr	Gly	Ser	Gln	Ala	Leu	Leu	
1					5			10				15			
Arg	Thr	Pro	Tyr	Ser	Ser	Asp	Asn	Leu	Tyr	Gln	Met	Thr	Ser	Gln	Leu
							20		25			30			

<210> 314  
 <211> 32  
 <212> PRT  
 <213> Homo sapien

<400> 314

Arg	Ile	His	Thr	His	Gly	Val	Phe	Arg	Gly	Ile	Gln	Asp	Val	Arg	Arg
1					5			10				15			
Val	Pro	Gly	Val	Ala	Pro	Thr	Leu	Val	Arg	Ser	Ala	Ser	Glu	Thr	Ser
							20		25			30			

<210> 315  
 <211> 4  
 <212> PRT  
 <213> Homo sapien

<400> 315

Arg	Tyr	Phe	Lys
1			

<210> 316  
 <211> 14  
 <212> PRT  
 <213> Homo sapien

<400> 316  
 Glu Arg Arg Phe Ser Arg Ser Asp Gln Leu Lys Arg His Gln  
 1 5 10

<210> 317  
 <211> 22  
 <212> PRT  
 <213> Homo sapien

<400> 317  
 Gln Arg Lys Phe Ser Arg Ser Asp His Leu Lys Thr His Thr Arg Thr  
 1 5 10 15

His Thr Gly Lys Thr Ser  
 20

<210> 318  
 <211> 21  
 <212> PRT  
 <213> Homo sapien

<400> 318  
 Cys Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His His Asn  
 1 5 10 15

Met His Gln Arg Asn  
 20

<210> 319  
 <211> 449  
 <212> PRT  
 <213> Homo sapien

<400> 319  
 Met Gly Ser Asp Val Arg Asp Leu Asn Ala Leu Leu Pro Ala Val Pro  
 1 5 10 15

Ser Leu Gly Gly Gly Gly Cys Ala Leu Pro Val Ser Gly Ala Ala  
 20 25 30

Gln Trp Ala Pro Val Leu Asp Phe Ala Pro Pro Gly Ala Ser Ala Tyr  
 35 40 45

Gly Ser Leu Gly Gly Pro Ala Pro Pro Pro Ala Pro Pro Pro Pro Pro  
 50 55 60

Pro Pro Pro Pro His Ser Phe Ile Lys Gln Glu Pro Ser Trp Gly Gly  
 65 70 75 80

Ala Glu Pro His Glu Glu Gln Cys Leu Ser Ala Phe Thr Val His Phe  
 85 90 95

Ser Gly Gln Phe Thr Gly Thr Ala Gly Ala Cys Arg Tyr Gly Pro Phe  
 100 105 110

Gly Pro Pro Pro Ser Gln Ala Ser Ser Gly Gln Ala Arg Met Phe  
 115 120 125

Pro Asn Ala Pro Tyr Leu Pro Ser Cys Leu Glu Ser Gln Pro Ala Ile  
 130 135 140

Arg Asn Gln Gly Tyr Ser Thr Val Thr Phe Asp Gly Thr Pro Ser Tyr  
 145 150 155 160

Gly His Thr Pro Ser His His Ala Ala Gln Phe Pro Asn His Ser Phe

165	170	175
Lys His Glu Asp Pro Met Gly Gln Gln	Gly Ser Leu Gly Glu Gln Gln	
180	185	190
Tyr Ser Val Pro Pro Pro Val Tyr Gly Cys His Thr Pro Thr Asp Ser		
195	200	205
Cys Thr Gly Ser Gln Ala Leu Leu Leu Arg Thr Pro Tyr Ser Ser Asp		
210	215	220
Asn Leu Tyr Gln Met Thr Ser Gln Leu Glu Cys Met Thr Trp Asn Gln		
225	230	235
Met Asn Leu Gly Ala Thr Leu Lys Gly Val Ala Ala Gly Ser Ser Ser		
245	250	255
Ser Val Lys Trp Thr Glu Gly Gln Ser Asn His Ser Thr Gly Tyr Glu		
260	265	270
Ser Asp Asn His Thr Thr Pro Ile Leu Cys Gly Ala Gln Tyr Arg Ile		
275	280	285
His Thr His Gly Val Phe Arg Gly Ile Gln Asp Val Arg Arg Val Pro		
290	295	300
Gly Val Ala Pro Thr Leu Val Arg Ser Ala Ser Glu Thr Ser Glu Lys		
305	310	315
Arg Pro Phe Met Cys Ala Tyr Pro Gly Cys Asn Lys Arg Tyr Phe Lys		
325	330	335
Leu Ser His Leu Gln Met His Ser Arg Lys His Thr Gly Glu Lys Pro		
340	345	350
Tyr Gln Cys Asp Phe Lys Asp Cys Glu Arg Arg Phe Ser Arg Ser Asp		
355	360	365
Gln Leu Lys Arg His Gln Arg Arg His Thr Gly Val Lys Pro Phe Gln		
370	375	380
Cys Lys Thr Cys Gln Arg Lys Phe Ser Arg Ser Asp His Leu Lys Thr		
385	390	395
His Thr Arg Thr His Thr Gly Lys Thr Ser Glu Lys Pro Phe Ser Cys		
405	410	415
Arg Trp Pro Ser Cys Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val		
420	425	430
Arg His His Asn Met His Gln Arg Asn Met Thr Lys Leu Gln Leu Ala		
435	440	445
Leu		

<210> 320  
 <211> 449  
 <212> PRT  
 <213> Mus musculus

<400> 320															
Met	Gly	Ser	Asp	Val	Arg	Asp	Leu	Asn	Ala	Leu	Leu	Pro	Ala	Val	Ser
1				5				10				15			
Ser	Leu	Gly	Gly	Gly	Gly	Cys	Gly	Leu	Pro	Val	Ser	Gly	Ala	Ala	
								20		25			30		
Gln	Trp	Ala	Pro	Val	Leu	Asp	Phe	Ala	Pro	Pro	Gly	Ala	Ser	Ala	Tyr
							35		40		45				
Gly	Ser	Leu	Gly	Gly	Pro	Ala	Pro	Pro	Ala	Pro	Pro	Pro	Pro	Pro	Pro
					50		55			60					
Pro	Pro	Pro	Pro	His	Ser	Phe	Ile	Lys	Gln	Glu	Pro	Ser	Trp	Gly	Gly
65					70				75			80			

Ala Glu Pro His Glu Glu Gln Cys Leu Ser Ala Phe Thr Leu His Phe  
                   85                 90                 95  
 Ser Gly Gln Phe Thr Gly Thr Ala Gly Ala Cys Arg Tyr Gly Pro Phe  
                   100             105             110  
 Gly Pro Pro Pro Pro Ser Gln Ala Ser Ser Gly Gln Ala Arg Met Phe  
                   115             120             125  
 Pro Asn Ala Pro Tyr Leu Pro Ser Cys Leu Glu Ser Gln Pro Thr Ile  
                   130             135             140  
 Arg Asn Gln Gly Tyr Ser Thr Val Thr Phe Asp Gly Ala Pro Ser Tyr  
                   145             150             155             160  
 Gly His Thr Pro Ser His His Ala Ala Gln Phe Pro Asn His Ser Phe  
                   165             170             175  
 Lys His Glu Asp Pro Met Gly Gln Gln Gly Ser Leu Gly Glu Gln Gln  
                   180             185             190  
 Tyr Ser Val Pro Pro Pro Val Tyr Gly Cys His Thr Pro Thr Asp Ser  
                   195             200             205  
 Cys Thr Gly Ser Gln Ala Leu Leu Leu Arg Thr Pro Tyr Ser Ser Asp  
                   210             215             220  
 Asn Leu Tyr Gln Met Thr Ser Gln Leu Glu Cys Met Thr Trp Asn Gln  
                   225             230             235             240  
 Met Asn Leu Gly Ala Thr Leu Lys Gly Met Ala Ala Gly Ser Ser Ser  
                   245             250             255  
 Ser Val Lys Trp Thr Glu Gly Gln Ser Asn His Gly Ile Gly Tyr Glu  
                   260             265             270  
 Ser Asp Asn His Thr Ala Pro Ile Leu Cys Gly Ala Gln Tyr Arg Ile  
                   275             280             285  
 His Thr His Gly Val Phe Arg Gly Ile Gln Asp Val Arg Arg Val Ser  
                   290             295             300  
 Gly Val Ala Pro Thr Leu Val Arg Ser Ala Ser Glu Thr Ser Glu Lys  
                   305             310             315             320  
 Arg Pro Phe Met Cys Ala Tyr Pro Gly Cys Asn Lys Arg Tyr Phe Lys  
                   325             330             335  
 Leu Ser His Leu Gln Met His Ser Arg Lys His Thr Gly Glu Lys Pro  
                   340             345             350  
 Tyr Gln Cys Asp Phe Lys Asp Cys Glu Arg Arg Phe Ser Arg Ser Asp  
                   355             360             365  
 Gln Leu Lys Arg His Gln Arg Arg His Thr Gly Val Lys Pro Phe Gln  
                   370             375             380  
 Cys Lys Thr Cys Gln Arg Lys Phe Ser Arg Ser Asp His Leu Lys Thr  
                   385             390             395             400  
 His Thr Arg Thr His Thr Gly Lys Thr Ser Glu Lys Pro Phe Ser Cys  
                   405             410             415  
 Arg Trp His Ser Cys Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val  
                   420             425             430  
 Arg His His Asn Met His Gln Arg Asn Met Thr Lys Leu His Val Ala  
                   435             440             445  
 Leu

<210> 321  
 <211> 9  
 <212> PRT  
 <213> Homo sapien and Mus musculus

<400> 321  
Pro Ser Gln Ala Ser Ser Gly Gln Ala  
1 5

<210> 322  
<211> 9  
<212> PRT  
<213> Homo sapien and Mus musculus

<400> 322  
Ser Ser Gly Gln Ala Arg Met Phe Pro  
1 5

<210> 323  
<211> 9  
<212> PRT  
<213> Homo sapien and Mus musculus

<400> 323  
Gln Ala Arg Met Phe Pro Asn Ala Pro  
1 5

<210> 324  
<211> 9  
<212> PRT  
<213> Homo sapien and Mus musculus

<400> 324  
Met Phe Pro Asn Ala Pro Tyr Leu Pro  
1 5

<210> 325  
<211> 9  
<212> PRT  
<213> Homo sapien and Mus musculus

<400> 325  
Pro Asn Ala Pro Tyr Leu Pro Ser Cys  
1 5

<210> 326  
<211> 9  
<212> PRT  
<213> Homo sapien and Mus musculus

<400> 326  
Ala Pro Tyr Leu Pro Ser Cys Leu Glu  
1 5